



Laser Technology Inc.

Advanced NDT Systems

Model LTI-5100 Digital, Mobile Shearography System

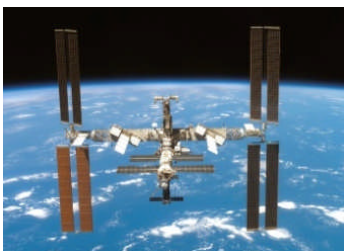


System Features

- Remote Control of all Camera functions
- Digital, Phase Step and Phase Reversal Real-time Subtraction Modes
- All mode Operation with User set macros
- Use on Base, Tripod Lift or Scan Gantry
- Powerful image Processing Suite
- Portable
- 2 Models
 - 5100 150 mw Laser
 - 5100e External Laser to 10 Watts

Benefits

- Large Area Inspection
- High Through-put
- Real-Time Imaging of:
 - Delaminations
 - Disbonds
 - Damage
- Large increase in Aerospace manufacturing productivity



The LTI-5100 is used for critical NDT inspection on these and many other programs.

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www.LaserNDT.com



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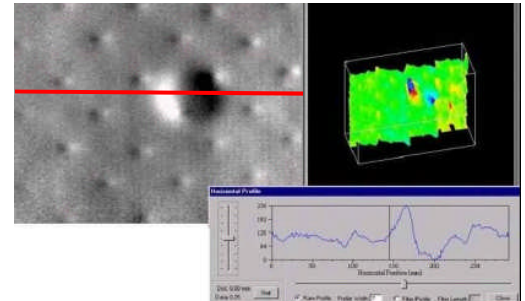
Model LTI-5100 Digital, Mobile Shearography System

Technical Description:

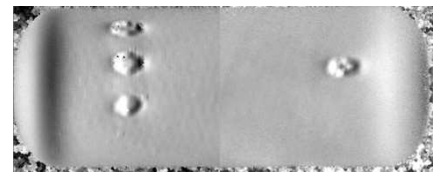
The LTI-5100 is a modular, all mode, digital Shearography Camera System featuring complete Remote control of camera pan, tilt, zoom, iris, focus and shear vector as well as laser beam X/Y steering and Beam expansion. The LTI-5100 consists of the SC-5100 Digital Shearography Camera with built-in or external laser Remote Control Console, and the IP-5100 Image Processing Computer, all interconnecting cables, 2 Manuals and a One Year Warranty.

Optional Equipment:

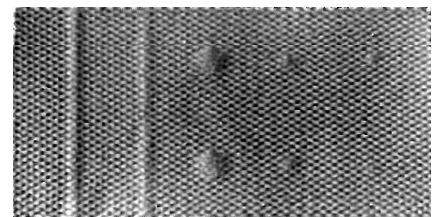
- Tripod and Adapter Plate
- MECAD- 100, 200 Vibration Stress Units
- ACAD-100, 200 Acoustic Stress Units
- TS-100 Thermal Stress Unit
- Vacuum Windows and Generators
- LTI-9000 Vacuum Test Chambers
- Gantry and Mobile Lift Systems



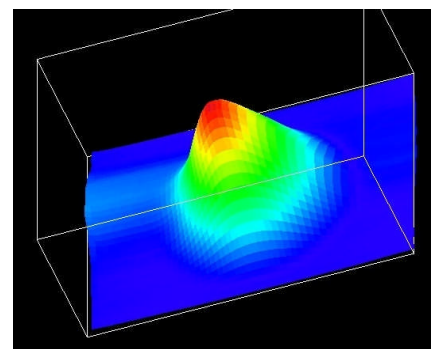
LTI-5100 has Powerful Image Analysis tools for precision defect measurements.



COPV impact damage.



Aluminum Honeycomb disbands.



3-D Quantitative Deformation Analysis

Shear Camera	Digital Phase Stepping Shearography Camera, real time mode
Stress Methods	All Mode
Laser	Built in 150mW @532nm (Green) Laser Class IIIa (Safe for operator)
CCD Resolution	768x494 pixels
Zoom	F1.0, 8 w/2x Converter (effective performance F4, 16)
Shear Optic Placement	Shear Optics located in front of imaging lens, which gives the absolute best image quality with no distortion to the shearography image
Shear Angle	Continuously adjustable 0° - >3°
Shear Direction	Continuously adjustable 0° - 360°
Field of View	Adjustable, x (distance)
Measuring Sensitivity	0.05 μm/shear distance
Computer and Remote Control Features	Camera Lens: Iris, Focus, Zoom, Shear Vector: X/Y Shear 0-5°, 0-360° Laser: X/Y Steer, Beam Expansion Motion: (Pan350°, Tilt 120°) Laser Spot Projector for Precision Image Calibration
Manual Adjustments:	Laser Shutter on/off

The LTI-5100 is manufactured in the USA under US and foreign patents. 6,717,681; 5,257,088; 5,094,528 Additional patents applied and Pending. Specifications are subject to change without notice. 1/08



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